

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A method for transforming a leguminous plant comprising the steps of:
  - (a) contacting a meristematic tissue of the leguminous plant with a medium comprising DNA;
  - (b) suspending a the root of the leguminous plant in buffer and contacting said root with a positive lead of a power source;
  - (c) contacting the medium comprising DNA in step (a) with a negative lead of the power source; and
  - (d) applying a low amperage current from the power source, thereby causing the DNA to migrate from the medium to the cells of the meristematic tissue of the leguminous plant.
2. (Canceled).
3. (Previously Presented) The method of claim 1, wherein the leguminous plant is a soybean plant.
4. (Canceled).
5. (Previously Presented) The method of claim 1, wherein the leguminous plant is a seedling.
6. (Original) The method of claim 1, wherein the DNA is a plasmid vector.
7. (Original) The method of claim 6, wherein the plasmid vector is linearized.
8. (Previously Presented) The method of claim 6, wherein the plasmid vector contains a gene for barley oxalic acid oxidase.

9. (Original) The method of claim 1, wherein the current is about 0.01 to about 1.0 mA.
10. (Original) The method of claim 1, wherein the current is about 0.1 to about 0.5 mA.
11. (Original) The method of claim 1, wherein the meristematic tissue is an apical meristem.
12. (Original) The method of claim 1, wherein the meristematic tissue is a lateral meristem.
13. (Original) The method of claim 1, wherein the meristematic tissue is a meristematic dome.
14. (Canceled).
15. (Canceled).
16. (Canceled).
17. (Canceled).
18. (Canceled).
19. (Canceled).
20. (Canceled).
21. (Previously Presented) A method for producing seed of a transformed leguminous plant comprising the steps of:
  - (a) propagating the transformed leguminous plant produced by the method of claim 1;
  - (b) pollinating the transformed leguminous plant; and
  - (c) harvesting seed from the transformed leguminous plant.
22. (Previously Presented) A method for transforming a leguminous plant comprising the steps of:

- (a) contacting a meristematic tissue of the leguminous plant with a medium comprising DNA, wherein said DNA comprises a plasmid vector having a T-DNA region and border sequences;
  - (b) contacting an area of the leguminous plant below the meristematic tissue of step (a) with a positive lead of a power source;
  - (c) contacting the medium comprising DNA with a negative lead of the power source; and
  - (d) applying a low amperage current from the power source, thereby causing the DNA to migrate from the medium to the cells of the meristematic tissue of the leguminous plant.
23. (Canceled).
24. (Previously Presented) The method of claim 22 wherein the plasmid vector contains a gene for barley oxalic acid oxidase.
25. (Previously Presented) The method of claim 22, wherein the leguminous plant is a soybean plant.
26. (Previously Presented) The method of claim 22, wherein the leguminous plant is a seedling.
27. (Previously Presented) The method of claim 22, wherein the area of the leguminous plant below the meristematic tissue is a root, the root is suspended in buffer and contacted with the positive lead of the power source.
28. (Previously Presented) The method of claim 22, wherein the plasmid vector is linearized.
29. (Previously Presented) The method of claim 22, wherein the current is about 0.01 to about 1.0 mA.
30. (Previously Presented) The method of claim 22, wherein the current is about 0.1 to about 0.5 mA.

31. (Previously Presented) The method of claim 22, wherein the meristematic tissue is an apical meristem.
32. (Previously Presented) The method of claim 22, wherein the meristematic tissue is a lateral meristem.
33. (Previously Presented) The method of claim 22, wherein the meristematic tissue is a meristematic dome.